

## MVL-MF2528M-10MPE 2/3" 25 mm 10 MP FA Lens

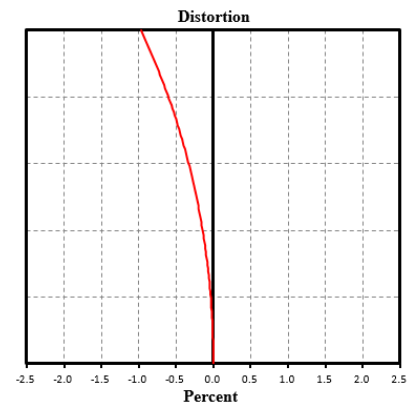
MF-10MPE series FA Lens are optimized for machine vision light sources and sensors, with high resolution, excellent image uniformity, high transmittance and good stability. Featured with fixed focal length, manual aperture, and compact size, it is suitable for machine vision industry applications.



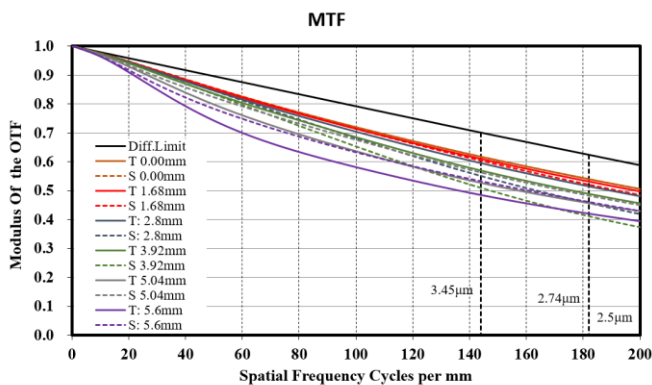
### Key Feature

- High resolution and consistency of image clarity
- Lower distortion and higher relative illumination rate
- Excellent performance at high and low temperature
- Good optical performance at short working distance

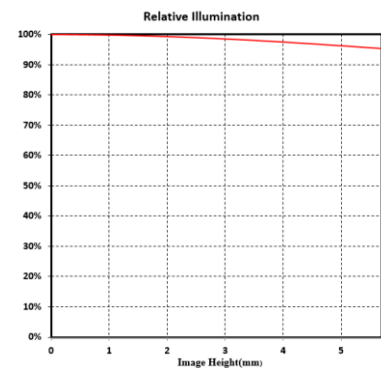
### Distortion



### MTF



### Relative Illumination

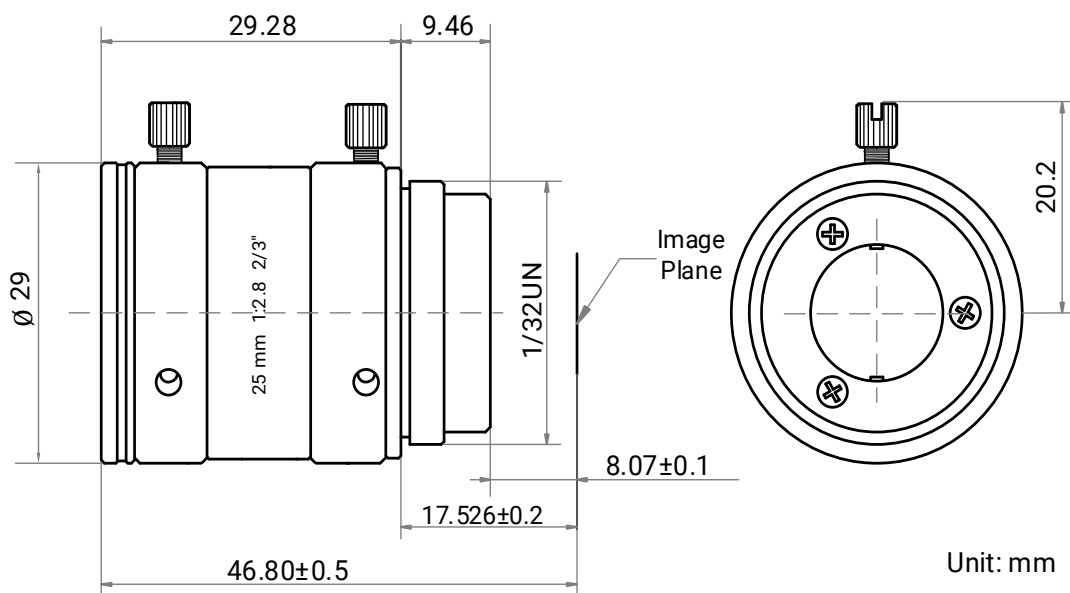


Note: The above curves are the simulate results based on F2.8,  $\beta = -0.063$ , WD=400 mm.

## Specification

<b>Model</b>	<b>MVL-MF2528M-10MPE</b>
<b>Performance</b>	
<b>Focal length</b>	25 mm
<b>F-number</b>	F2.8 to F16
<b>Image size</b>	Φ11.2 mm (2/3")
<b>Distortion</b>	-0.48%
<b>Min. object distance</b>	0.15 m
<b>Field of view</b>	D (11.01 mm): 22.81° H (8.45 mm): 17.12° V (7.07 mm): 14.14°
<b>Mechanical</b>	
<b>Iris control</b>	Manual
<b>Focus control</b>	Manual
<b>Filter thread</b>	M27 × P0.5
<b>Mount</b>	C-mount
<b>Flange back length</b>	17.526 mm
<b>Dimension</b>	Φ29 mm × 29.28 mm (Φ1.1" × 1.2")
<b>Weight</b>	46 g (0.1 lb.)
<b>Temperature</b>	-10 °C to 50 °C (14 °F to 122 °F)
<b>General</b>	
<b>Certification</b>	RoHS 2.0

## Dimension



## Field of View

Extension (mm)	Working Distance (mm)		Magnification	Field of View (mm)					
				2/3"		1/1.8"		1/2"	
				H (8.45mm)	V (7.07mm)	H (7.38mm)	V (4.92mm)	H (6.22mm)	V (4.67mm)
2	Near	105.0	-0.255	33.3	27.8	29.0	19.3	24.4	18.3
	Far	302.0	-0.082	103.0	86.1	89.9	59.8	75.7	56.7
1	Near	123.7	-0.216	39.2	32.8	34.2	22.8	28.8	21.6
	Far	600.0	-0.041	206.0	172.1	179.7	119.6	151.3	113.5
0		150	-0.177	47.7	39.9	41.6	27.7	35.1	26.3
		200	-0.127	65.0	54.3	56.7	37.7	47.7	35.8
		250	-0.101	82.2	68.7	71.7	47.7	60.4	45.3
		300	-0.084	99.5	83.1	86.8	57.8	73.1	54.8
		350	-0.072	116.7	97.5	101.8	67.8	85.8	64.3
		400	-0.063	133.9	111.9	116.9	77.8	98.4	73.8
		450	-0.056	150.8	126.0	131.6	87.6	110.8	83.1
		500	-0.050	167.7	140.1	146.3	97.4	123.2	92.4
		550	-0.045	184.6	154.2	161.0	107.2	135.6	101.7
		600	-0.042	203.0	169.6	177.1	117.9	149.1	111.9
		650	-0.038	220.3	184.0	192.2	127.9	161.8	121.4
		700	-0.036	237.5	198.5	207.2	137.9	174.5	130.9
		800	-0.031	272.0	227.3	237.3	157.9	199.8	149.9
		900	-0.028	306.5	256.1	267.4	178.0	225.2	168.9
	1000	-0.025	341.0	284.9	297.5	198.0	250.5	187.9	

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